

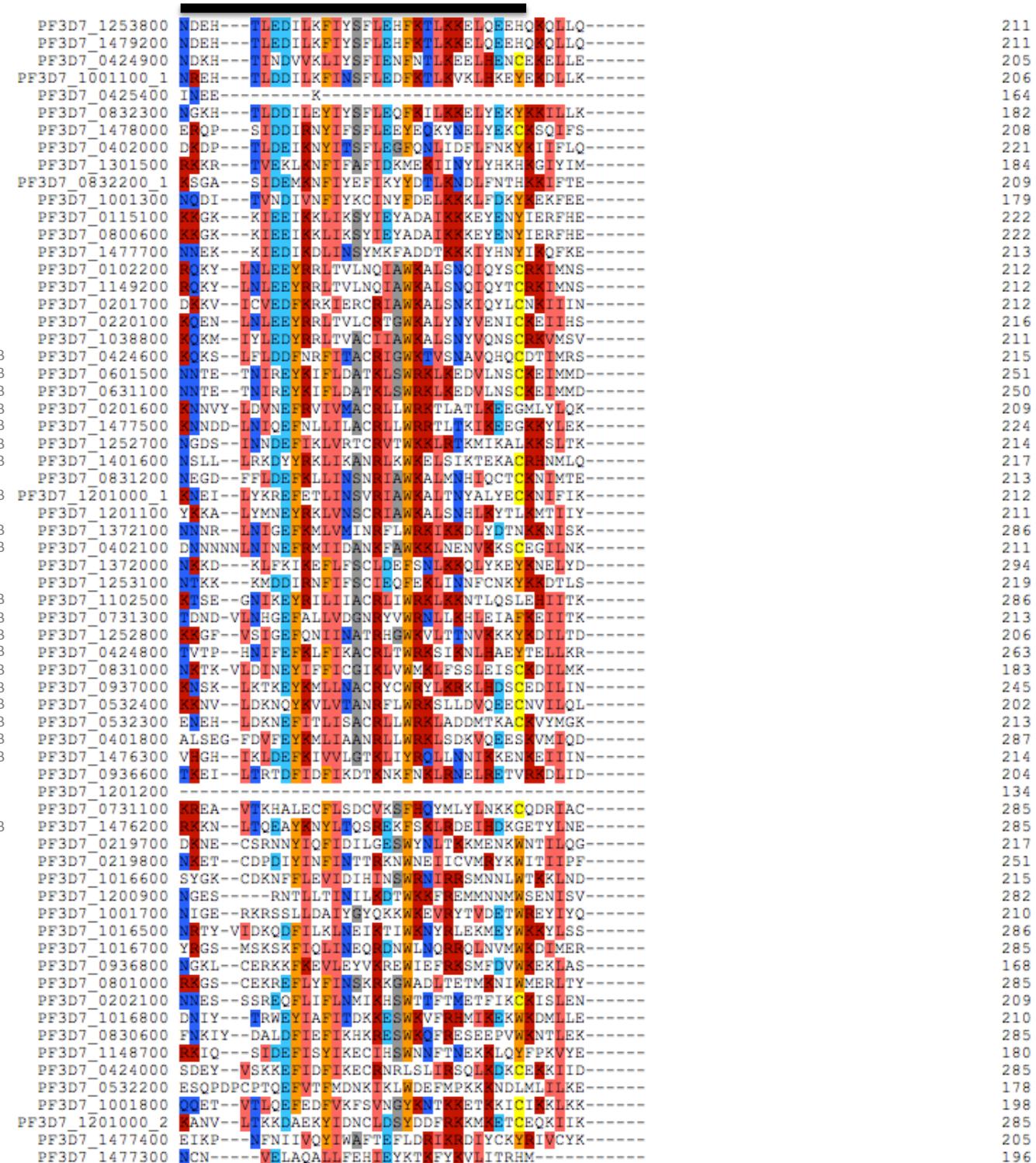
PF3D7_1253800	--VQVEKNN GSKVKE\$LKLKKE\$DKSISDNVNDI YNEQKIQE\$NIYTINNDIE-----	52
PF3D7_1479200	--VQVEKNN GSKVKE\$LKLKKE\$DKSISDNVNDI YNEQKIQE\$NIYTINNDIE-----	52
PF3D7_0424900	--VQVEKS GQKSKKHLKHKR D\$VTKDNENNI GNAQQVDENKNSIKNNGE-----	50
PF3D7_1001100_1	--VQVEKN DSKKKRNLKHKKV\$DKSISDNVNDI YNEQKIQE\$NIYTINNDIE-----	51
PF3D7_0425400	--VQVEKN A\$SKRK\$KKLKHKK\$E\$IDKTKANANDL\$CNE\$CLEENKH\$INNDLG-----	51
PF3D7_0832300	--CEIENG--\$NEKRQNIMNRLDQT\$ESSKNSNN--\$NKQITLENK-----	39
PF3D7_1478000	--TEVKTP \$NEFKFKSFF\$KNNKKC\$NE-NEVNNKDNTKRTGEPK\$CCSGN\$E-----	50
PF3D7_0402000	RTDNSKM\$MNKV\$KNNNQ\$TENNDNKK\$GNKED\$NQGKN NNNNKE\$KQNDI KRG-----	66
PF3D7_1301500	-----HNNM\$NKNMDAMS\$KNDMY HNKHNDSGY\$ISK-----	34
PF3D7_0832200_1	--SETESVE SGLSNT\$ED\$V\$E\$LENGLEE\$NNNNNISCDLEG\$SN\$EDE-----	45
PF3D7_1001300	--SETEKENY SIESNN\$EKS\$KL-----DE-----	23
PF3D7_0115100	DLQRIVKGR KDSKL\$KNK\$SEG\$TN Q\$C\$NN\$K\$N\$G\$N\$IV\$NE\$E\$LL\$RS\$N\$KK\$C K\$VD\$LN\$RE-----	57
PF3D7_0800600	DLQRIVKGR KDSKL\$KNK\$SEG\$TN Q\$C\$NN\$K\$N\$G\$N\$IV\$NE\$E\$LL\$RS\$N\$KK\$C K\$VD\$LN\$RE-----	57
PF3D7_1477700	---SAKRRP\$NY\$ND\$DAY\$DESHYN\$H\$NST\$TN\$G\$N\$SD\$KA\$E\$IW\$NG\$IDS\$IF\$NR\$IM\$N-----	50
PF3D7_0102200	---YGETLPVNPYADSENPIVVSQ\$V\$GLP\$FE\$KPT\$FT\$E\$SP\$P\$D\$ID\$HT\$N IL\$GF\$NE-----	50
PF3D7_1149200	---YCETLPINPYADSENPIVVSQ\$V\$GLP\$SE\$KPT\$FT\$E\$GP\$D\$ID\$HT\$N IL\$GF\$NE-----	50
PF3D7_0201700	---SEKDNL\$NSL\$E\$Q\$N\$G\$E\$P\$V\$V\$G\$F\$S\$LP\$N\$G\$K\$-SIS D\$IF\$ID\$EE\$Q\$S\$IV\$NF\$ID-----	50
PF3D7_0220100	---CESVRS S\$ND\$TI\$KE\$P\$V\$LN\$K\$V\$F\$LP\$NE\$K\$-KLT\$K\$E\$D\$IC\$D\$NN\$V\$NC\$IF\$KF\$NE-----	50
PF3D7_1038800	---YSTESI\$RE\$KT\$NT\$TE\$TI\$ISK\$V\$LL\$P\$NE\$-I\$LS\$NL\$KN\$NN\$K\$RE\$ES\$V\$LE\$F\$NE-----	49
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B PF3D7_0631100	KIKR\$INS\$IC\$D\$NN\$E\$D\$IV\$FL\$DE\$LR\$H\$V\$SD\$IS\$D\$K\$E\$IE\$K\$IF\$K\$Y\$EM\$N\$EC\$N\$IFT\$M\$NE-----	88
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B PF3D7_1477500	---SD\$NE\$KE\$E\$KE\$KE\$KE\$EN\$K\$F\$Y\$C\$Y\$K\$K\$G\$K\$-I\$T\$IE\$Y\$T\$E\$Y\$M\$Q\$K\$A\$K\$K\$R\$L\$K\$A\$G\$K\$N\$E\$A\$F\$K\$K\$Y\$-----	62
B PF3D7_1252700	---FET\$NN\$G\$N\$G\$Y\$V\$S\$S\$LT\$N\$K\$IL\$NN\$N\$K\$G\$P\$K\$V\$E\$N\$K\$A\$K\$K\$IL\$G\$F\$D\$K\$N\$I\$LE\$A\$D\$LF\$IN\$NI\$K\$N\$-----	59
B PF3D7_1401600	---YEN\$K\$G\$V\$T\$Y\$E\$N\$V\$E\$V\$H\$D\$N\$F\$N\$K\$Y\$M\$S\$P\$N\$V\$E\$N\$G\$K\$E\$N\$V\$F\$G\$N\$T\$D\$L\$G\$G\$M\$E\$S\$H\$E\$K\$F\$K\$E\$K\$IR\$R\$-----	59
B PF3D7_0831200	---YATER\$F\$N\$E\$F\$G\$IP\$SK\$D\$VL\$R\$S\$K\$I\$E\$R\$E\$E\$D\$V\$V\$ I\$N\$R\$F\$V\$D\$E\$D\$E\$Y\$N\$A\$F\$Y\$K\$-----	51
B PF3D7_1201000_1	--SS\$AN\$NG\$NEY\$D\$IL\$D\$G\$IP\$S\$V\$F\$S\$V\$F\$S\$L\$S\$K\$E\$E\$M\$T\$L\$K\$ V\$Y\$G\$K\$T\$K\$V\$N\$ S\$D\$E\$E\$K\$-----	51
PF3D7_1201100	---C\$E\$A\$E\$T\$ I\$S\$R\$S\$N\$V\$N\$T\$P\$L\$S\$N\$F\$S\$L\$LY\$T\$S\$P\$C\$I\$ L\$D\$D\$V\$F\$E\$N\$K\$E\$E\$Y\$M\$K\$Y\$ Q\$-----	50
B PF3D7_1372100	YFR\$K\$Y\$G\$V\$S\$N\$K\$L\$IVE\$C\$V\$N\$Y\$LY\$H\$N\$ E\$E\$A\$N\$K\$S\$L\$D\$V\$ I\$E\$B\$LM\$Q\$C\$D\$E\$N\$N\$ I\$F\$K\$K\$K\$-----	122
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B PF3D7_1253100	FES\$F\$LN\$K\$IC\$Y\$K\$W\$LN\$K\$K\$D\$D\$LN\$K\$K\$ K\$K\$K\$N\$K\$E\$N\$D\$S\$K\$E\$Q\$N\$K\$N\$K\$D\$C\$C\$N\$V\$D\$-----	61
B PF3D7_1102500	DS\$M\$N\$E\$V\$L\$V\$H\$M\$E\$Y\$D\$N\$S\$E\$N\$T\$T\$D\$ I\$S\$E\$E\$N\$Y\$N\$O\$L\$F\$N\$ I\$Y\$R\$A\$F\$Q\$N\$K\$Y\$ I\$F\$K\$L\$H\$-----	125
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PF3D7_0936600	--S\$E\$I\$V\$D\$V\$S\$K\$G\$C\$L\$R\$S\$G\$E\$N\$E\$T\$N\$V\$K\$S\$S\$S\$S\$Q\$T\$D\$S\$V\$L\$S\$N\$N\$L\$T\$D\$F\$Y\$N\$S\$Y\$-----	44
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PF3D7_0936800	-----A\$E\$A\$P\$E\$H\$N\$N\$L\$R\$S\$H\$ I\$D\$P\$K\$K\$N\$E\$E\$K\$S\$ I\$E\$K\$C\$D\$M\$K\$K\$-----	38
PF3D7_0801000	F\$R\$N\$M\$Y\$D\$R\$L\$R\$D\$E\$D\$Y\$D\$Q\$P\$P\$S\$T\$S\$S\$ I\$R\$G\$R\$G\$E\$Y\$S\$Q\$S\$R\$D\$R\$E\$E\$R\$N\$N\$Y\$ I\$S\$D\$Y\$Y\$ I\$R\$G\$N\$-----	118
PF3D7_0202100	--A\$E\$G\$Y\$M\$ G\$G\$S\$E\$K\$N\$V\$Y\$L\$S\$N\$K\$N\$K\$E\$I\$N\$M\$N\$Q\$S\$D\$N\$ I\$C\$E\$C\$D\$D\$M\$N\$Q\$P\$G\$D\$V\$N\$K\$N\$-----	50
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PF3D7_0830600	V\$L\$T\$E\$D\$V\$Q\$N\$ I\$S\$Y\$N\$N\$E\$E\$L\$N\$N\$N\$N\$N\$N\$ I\$R\$T\$S\$E\$N\$V\$N\$T\$Y\$ I\$P\$N\$G\$E\$L\$H\$N\$ I\$S\$D\$R\$I\$N\$G\$-----	119
PF3D7_1148700	-----A\$A\$M\$Q\$H\$S\$L\$R\$G\$D\$F\$V\$T\$Q\$R\$S\$T\$C\$F\$T\$E\$K\$R\$K\$Q\$K\$A\$ I\$N\$K\$N\$N\$A\$E\$G\$Y\$F\$N\$N\$L\$N\$-----	48
PF3D7_0424000	R\$N\$N\$D\$P\$E\$E\$Q\$N\$ I\$E\$E\$R\$K\$K\$G\$E\$E\$E\$Q\$N\$K\$ I\$E\$E\$R\$K\$K\$R\$E\$E\$E\$S\$N\$ I\$T\$F\$L\$S\$N\$N\$D\$T\$N\$S\$N\$G\$S\$N\$-----	119
PF3D7_0532200	--S\$N\$V\$I\$E\$G\$E\$S\$T\$F\$N\$N\$E\$K\$K\$N\$K\$M\$A\$H\$S\$C\$R\$T\$L\$N\$C\$T\$E\$Q\$G\$ K\$P\$H\$N\$L\$R\$R\$A\$A\$K\$-----	45
PF3D7_1001800	--S\$D\$N\$N\$A\$K\$ I\$E\$R\$G\$S\$G\$I\$E\$K\$V\$K\$S\$K\$Q\$H\$S\$P\$C\$S\$N\$N\$A\$A\$V\$G\$Y\$Y\$D\$Y\$L\$K\$I\$Y\$N\$D\$G\$-----	45
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PF3D7_1477400	-N\$D\$II\$H\$M\$G\$L\$E\$ I\$D\$S\$E\$D\$F\$K\$S\$II\$E\$D\$N\$ I\$V\$V\$E\$D\$S\$ I\$D\$T\$S\$Y\$K\$D\$A\$R\$Y\$F\$Y\$ I\$E\$H\$F\$S\$Y\$ I\$S\$-----	53
PF3D7_1477300	E\$L\$V\$L\$A\$N\$Y\$P\$S\$S\$ I\$Y\$A\$F\$S\$N\$Y\$A\$S\$A\$N\$Y\$S\$S\$ I\$Y\$P\$S\$S\$K\$M\$D\$D\$ I\$R\$H\$N\$C\$S\$S\$S\$N\$K\$A\$V\$D\$-----	51

< PRESAN start

PF3D7_1253800 -----NTNVKNERNIFISSIINNDMS----- KNLTEKEIYEVLNLSLECP-SNE--DLRKIWTN 103
 PF3D7_1479200 -----NTNVKNERNIFISSIINNDMS----- KNLTEKEIYEVLNLSLECP-SNE--DLRKIWTN 103
 PF3D7_0424900 -----NSNVEKKSNCVSTCNINYNDMS----- KNLTEKEIYEVLNLSLECP-PND--DLRNWNS 101
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 PF3D7_0832300 -----PYNDMS----- KNLTEKEIYEVLNLSLECP-PKE--DLINIWHS 75
 PF3D7_1478000 -----SNQNEENNDATIDINYNDMS----- IQLTKEQFELVNLNSLKKVP-PKE--DLINIWHS 101
 PF3D7_0402000 -----TQNTEKKSNKKLSQLDYNDVN----- KKFTKEQMKNLVNSLDEIP-PRN--DMEKIWNH 117
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 PF3D7_0832200_1 -----VKYNDVITTKRKCNDINYNDMS----- KQLTKEELHSLVLDLEKST-TKE--DLYNIWNQ 96
 PF3D7_1001300 -----LNNSIIKNKVDLKTIDINYNDLS----- RQLTKEELHSLVLDLEKST-TKE--DLYNIWNQ 74
 PF3D7_0115100 -----KFLKYFSSDKENIKKDNDINYNDLT----- NNLRNRKEELAVLETINEKT-PRN--DLINIWSH 111
 PF3D7_0800600 -----KLLKYFSSDKENIKKDNDINYNDLT----- NNLRNRKEELAVLETINEKT-PRN--DLINIWSH 111
 PF3D7_1477700 -----IKDNYSKDPYPSLHRVVDDYNDLS----- NLSREELAVRLGLNDT-PRN--DLISIWNH 102
 PF3D7_0102200 -----KFMEDVNRYRYSNNYEAIIPHISEF----- NPLIVDKVLFDYNEKVNDLGRSG-GDIKKMQTLWDE 110
 PF3D7_1149200 -----KLMDVNRYRYSNNYEAIIPHTRF----- NPLIVDKVLFDYNEKVNDLGRSG-GDIKKMQTLWDE 110
 PF3D7_0201700 -----NIIECLEQYMLWNNYVTPHMQY----- PPVFNNDKDIEELNNVNDLERNR-EDIIETEKLWLE 110
 PF3D7_0220100 -----KLINDLEKYKVSNENDVMAYVKSYSVY----- NNNNNNKKDDILDTKIHNGKNG-EDIIKTMEILWLE 113
 PF3D7_1038800 -----QLIENLQKYKLWNNAIAIYPVKKY----- NPIKYNDIDNEELNEKIDNVGKNG-EDIISEMNNLWLQ 109
 B PF3D7_0424600 -----KLIDDLINKFRYNSNSPYPYPEQY----- NPVDYNKADFVLDKYIDNLGYCK-GDTIKAMEIIWEA 113
 B PF3D7_0601500 -----EFFGELCDDIECKKYCLYPYDNIN----- SDKYMNQEDEIRKEELDALIKYG-CSDMLMYIWCR 149
 B PF3D7_0631100 -----EFFGELCDDIECKKYCLYPYDNIN----- SDKYMNQEDEIRKEELDALIKYG-CSDMLMYIWCR 148
 B PF3D7_0201600 -----HITSLFNYDLWERFEISYMMLSG----- NSEYTNDLDELKKLV-LLNNE-TNSELRHTIWHN 106
 B PF3D7_1477500 -----HIFVDLMKNEIWKYBSPYIILT----- KGIYINKYDPEIRNII-LLNKE-TRNLRKVNHYLL 121
 B PF3D7_1252700 -----IAASSKLNSS---DIYRHGNTFID----- NVMSNEEIDQIES- FNGGG-NYDKEKLNRLLWWO 112
 B PF3D7_1401600 -----SSTSLSQGNYSNFKDFGFGYEYSEL----- DSMTDEEIDKEVDK--LMEYT-NNMVKVSYLSWWO 115
 B PF3D7_0831200 -----KMKDILKKYKLWNNAIAIYPVNEYN----- IVNNEIDERIDNEIDTIKIFS-KSNZNIMYDLSWQ 111
 B PF3D7_1201000_1 -----IIRDILKKYGMSCNSAIPYIDEFG----- LVVYNNKIDNEIDAFNDLDELS-ETFEDAYNHWV 110
 B PF3D7_1201100 -----ILGNLNKYISWDNYGLLHIDDYT----- PVTYNNKIDBIEDKKIEMIWKKR-QHRIEDIKDSWDE 109
 B PF3D7_1372100 -----KLFKYLKNEGIIKKEYBLDFNIEKNDKE----- TNVYSNEKDFSINEDISSLKSYN-MCVKKCSDLWLN 184
 B PF3D7_0402100 -----TFLNVRQHDENNFSKDSGS----- MVLNEKDQIELKEKKIELLKGDN-NNI_ESMSKISWVD 107
 B PF3D7_1372000 -----TNPNKDKFNDNSNKFAPLKNLYNDT----- QOLNSYEISDVIKGLKENI-PNE--DLVNVWID 183
 PF3D7_1253100 -----ANSKXKEDSISVKHNNNFI----- KQLTKEELYLITYLTVFEP-ERK--ILLLWNS 110
 B PF3D7_1102500 -----MYRDISNVSIWDEYBLDLYNVKEN----- GLYTDDKDLBENENILSLSNSKK--NDVNTLRDMWNO 184
 B PF3D7_0731300 -----TFFLYLINEDEIYAEYBLVPTNKKHT----- KYSNENDKAIALYELESIKSK-KNRYEKMYQLWTR 110
 B PF3D7_1252800 -----KKIRKNMEQNKYGFVPSYNEH----- LIPFYNEKDNSINNDIDSLDGRD-NLILKMYNIWLE 104
 B PF3D7_0424800 -----SIFKDLDDKDCSISYBLVFDQNSK----- CTLLTNKNDLQSEEDILLGNES--EETNKLLDWLWQ 161
 B PF3D7_0831000 -----YFPVK----- NEKDEIKEOKIQLLSINEDENKEHHMKKIWD 80
 B PF3D7_0937000 -----IRGDGIDFLSPPKCCCGGKHDKCVHKHF----- PILVMDPKDLBINKKIKTYDFK-NKCYMRIMWSE 143
 B PF3D7_0532400 -----KVIKDLIKEHDLWNHDHVVKPYTSVYMG----- VSVQDIDYIIDLKIDNLDLYD-ENIIDSMSKYIWNE 100
 B PF3D7_0532300 -----DVFKDLISDDMWTRFHNLHDKCDIK----- NGKHEMDNIMKELFKLCED--DNEKMMFWKE 111
 B PF3D7_0401800 -----IVFOLSKKHTWDKYLHLPLGLAHG----- KYNNERDEELKKILIDLEDGF--DTQYIIRKLYISL 184
 B PF3D7_1476300 -----FSCSLYNDDEVYKLYELYLSDEKN----- I-KGTYNNIKDIKYYKMKKIDNEDT-LDEKELRYIW 112
 PF3D7_0936600 -----EFNIKDELDDIFKSIGLTSILHDKY----- YDLTKQWSDEKEIIEIINSLLDIP--NAFDVLIWMO 102
 PF3D7_1201200 -----LQDIMENTSIPPLDGKLYDTLE----- QWNEEKIQNKLDKLDDIH--SELDKLIIWAQ 97
 PF3D7_0731100 -----KTRDHSNRYNTQONQNSKGSNSSEVRKKF----- FDLNHEITEEDLAMVRSRSLDNIP--SINDILHIIWWO 183
 B PF3D7_1476200 -----DNNKNKNEKKNGKGNQGKNDIIPAYKT----- IDYNNLSSVQISLEDQFQAILNSLDSVLSAKEMHNWLWQ 183
 PF3D7_0219700 -----RTGEHRNVLINNMDDTMEMNKIN----- EEQYDRISDEEINOKLNDLDESV--SEKDMYIIWFN 115
 PF3D7_0219800 -----INGKKKKYTIKLFKLNTDEDEKMEY----- IKNLDEKIDIMIQRHKDI--TADKLFSIWIN 149
 PF3D7_1016600 -----KWIIEKKKNIKNDICIKNDPYNKLIFG----- DTSPDLSESEFNEFINNLDDYV--NENEMIYIWNY 113
 PF3D7_1200900 -----FALPSEHKEISDNDDIVNEEISNFDK----- YYKKSNSLHSISNDVLMIBYIKKNGKMTMEELYVIYFY 183
 PF3D7_1001700 -----TNDVTFDNTLYDMEWVVPVRNKN----- HQRVLVSNEQKEKIDSLGEVV--SVQDMWHKIFDL 108
 PF3D7_1016500 -----KKIKVEEVKYNEIWFDELEDEVLEDNLMLNQ----- YEYHRLQSEEEFYKMDITLGNLVW-CNNDKMLYIFNF 183
 PF3D7_1016700 -----LLTVFESNTGVDAKWSGSKENKDDKSNNEEL----- VSFEENYTEKEEINILSKLNEFV--SLKDMFIIFN 183
 PF3D7_0936800 -----YTAEEINEMINSNEIFI--NDNMNIIFSY 66
 PF3D7_0801000 -----ERTYNNNSNVTSSSNRELIPYKKEILPFG--VSNSELEDKLTEEEINRIRRRLDTV--SVKDMFILWNS 183
 PF3D7_0202100 -----KTSNDQANSSSDCPEPPGLKPS----- DLNKVTEEDLERMIIELPGKL-EKDMYLIWHY 107
 PF3D7_1016800 -----PKEEEKEBLGVDEGENKNNIRP----- FEVLTTEEEFIRKINILRGIGI--FLYEVYGLWNY 109
 PF3D7_0830600 -----ADVVNMMYFNGDVYSSLENLEETVETRNE----- EDEDNEDEEEFEKMINELKNNG--TLGETCRIWNS 183
 PF3D7_1148700 -----FNLEYTEELNBQITSLDPKT--SIQEELTNIFND 79
 PF3D7_0424000 -----IDSSELENDIDEYSDSNDISIILEDFFNNDIN----- EALNLISDDEIDBMNNLNNDIA--SFEEMHNWNE 183
 PF3D7_0532200 -----EYIPDIBRNIMCTFDKTV--SANVYDTYR 74
 PF3D7_1001800 -----ECEKESESDEMELLNQENDG----- FLEDMSDSIKQIKELENVP--SEDIIRNIWFK 96
 PF3D7_1201000_2 -----NDDEDDEDNDDEDDEDNDDEDDEDNDDEE----- DKGVYNLKKDETATINKDIKELEEVISVEDITNISL 183
 PF3D7_1477400 -----SGSYEISLSTKKCTDLS----- AFESKEDIYILLCSLSEIP--KCEILGIWYQ 100
 PF3D7_1477300 -----EEGICKDTFGNALDVPKYMENDS----- FHEDYHKSMFDIKNKILEEISLPLSLELSHIISR 108

PF3D7_1253800 TL---TVA₁GGEDDIQKELKELIQLQYELDNDIYPIFRCIK----GKFGYGS₁WEENIFRFYRTVAEEVQYSNDFYRL 174
 PF3D7_1479200 TL---TVA₁GGEDDIQKELKELIQLQYELDNDIYPIFRCIK----GKFGYGS₁WEENIFRFYRTVAEEVQYSNDFYRL 174
 PF3D7_0424900 SL---AVAKEGEDNQNLKELKGKIQNYLDNDIQLKN-----GKLLYKDTWDRIVLKFCRTVAIEEAETRKFYSLI 168
 PF3D7_1001100_1 AV---GVANEGLQDKELKTLIQKYLQDNDIQLGN-----GKVQYND₁WKGIVLSFCCTTG₁EVVEYTNNFLGLI 169
 PF3D7_0425400 TI---GLAEGEGFYQNQIKDLKGSIQKYLQDNDIYVG-----VHED--DKIYLYERMWN---EYISRFYETI 159
 PF3D7_0832300 AL---RAGMG₁EDNVVNEKLALIQKYLQDNDIYFNTCCCTK-----KELVYRS₁WEKNCFEFYTD₁AYELVKYSNGFFELL 145
 PF3D7_1478000 AL---RAGMG₁EDNVVNEKLALIQKYLQDNDIYFNTCCCTK-----KELVYRS₁WEKNCFEFYTD₁AYELVKYSNGFFELL 145
 PF3D7_0402000 AV---KTAANSQTSRK₁KKKKLKEYEQKQYGR---CYEERPQR-----FGSYEQVQLISQPHEFNERLK₁VHENDYTVFFYELL 184
 PF3D7_1301500 TI---SVA₁EGLGRMIKKLYFYLGYMD--EYEEMQKQK-----CFCFRKEISEDFMDE₁NETLSSHEKS₁TYKFYKLI 147
 PF3D7_0832200_1 VL---GIAADG₁DGM₁TELSYYVEEYIHEHEYERYHYFGGRKPV-SMKNVRET₁WYSKSMHDIGEALSSTDVKNLDFY₁FV 172
 PF3D7_1001300 SL---NIAAD-MKELLKEL₁GGYVDEYLN₁NPYDCDNF-----INDNN₁WID₁C₁LND₁IVETLSYEE₁MEYIEKFHNLL 142
 PF3D7_0115100 VV---GINRGEIDE₁TDKDLIA₁Y₁PKNSISD₁FELLEFKM-----FLNINSG₁GWNDFKIECVKK₁ACEDSVFSQRFYKIL 185
 PF3D7_0800600 VV---GINRGEIDE₁TDKDLIA₁Y₁PKNSISD₁FELLEFKM-----FLNINSG₁GWNDFKIECVKK₁ACEDSVFSQRFYKIL 185
 PF3D7_1477700 VV---RINRDGMV₁IINSILLYVN₁NFVNRY₁KNGKLDVKEILE---ELKIDE₁SLRLFKTSSLKE₁SSCDFKYYNDFY₁LLL 176
 PF3D7_0102200 IM---DINKR₁YDSLREKLQKT₁SQY₁VQYDM₁KA₁YE-----SKR₁QCIKL₁IDQGGEN₁LEERLNS₁FKNWY 174
 PF3D7_1149200 IM---DINKR₁YDSLREKLQKT₁SQY₁VQYDM₁KA₁YE-----SKR₁QCIKL₁IDQGGEN₁LEERLNS₁FKNWY 174
 PF3D7_0201700 IM---KNEKNA₁ASLCKL₁FNQ₁YNKF₁HN₁PI₁QE-----GCN₁LCKKL₁EIGEKY₁LERLNS₁SVF₁WY 174
 PF3D7_0220100 FM---ENEKMYLL₁GR₁LY₁KY₁NNKF₁PMENK₁Y₁T₁YDSE₁FPR-----KWN₁NYNDL₁IY₁KGS₁DL₁EE₁KL₁N₁K₁F₁Y₁WY 178
 PF3D7_1038800 VM---NNES₁SKY₁LS₁LI₁H₁R₁KKY₁NI₁K₁V₁K₁P₁ND₁YH₁N-----AK₁KE₁CE₁II₁K₁MG₁EE₁DE₁IK₁R₁N₁K₁M₁F₁DC₁F 173
 B PF3D7_0424600 TM---NNERRK₁YAA₁RRSMLR₁YYDDL₁K₁R₁I₁R₁PK₁TYT-----NKL₁SCNQIM₁ESSEKK₁I₁ESHL₁SEM₁FNK₁W₁ 177
 B PF3D7_0601500 VM---KNEED₁Y₁YL₁KEEL₁EN₁F₁Y₁ENL₁Q₁S₁K₁F₁V₁PL₁DISN-----RLWC₁SC₁ND₁I₁IFI₁NG₁IN₁N₁V₁P₁I₁D₁G₁I₁F₁W₁ 213
 B PF3D7_0631100 VM---KNEED₁Y₁YL₁KEEL₁EN₁F₁Y₁ENL₁Q₁S₁K₁F₁V₁PL₁DISN-----RLWC₁SC₁ND₁I₁IFI₁NG₁IN₁N₁V₁P₁I₁D₁G₁I₁F₁W₁ 212
 B PF3D7_0201600 VM---KSE₁E₁FSN₁W₁Y₁MF₁NN₁F₁Y₁LL₁K₁Y₁TP₁PF₁YAK-----PTCN₁QC₁NEFF₁ALSK₁Y₁I₁ENSE₁N₁K₁V₁FN₁W₁ 170
 B PF3D7_1477500 VQ---NNERL₁AE₁EN₁FL₁LE₁Y₁F₁SEL₁Y₁T₁DL₁R₁N₁SH₁K₁SP₁Y₁AK-----ET₁FQ₁LN₁E₁EF₁V₁VL₁G₁I₁Y₁V₁ENT₁CS₁NA₁F₁K₁WL 185
 B PF3D7_1252700 IM---RNEEL₁KY₁V₁S₁V₁NN₁K₁Y₁K₁V₁K₁AL₁R₁K₁Y₁N₁V₁D₁NS₁Y₁AE-----NK₁NE₁CK₁NI₁I₁IV₁GR₁V₁EY₁Q₁NY₁I₁NK₁V₁FL₁DW₁ 176
 B PF3D7_1401600 IM---RNE₁RV₁Y₁V₁M₁IK₁N₁LY₁NN₁F₁L₁K₁KK₁Y₁N₁V₁D₁NS₁F₁SE-----Q₁WN₁I₁CK₁K₁R₁V₁NN₁R₁LN₁I₁Y₁E₁K₁S₁INT₁T₁FL₁WC 179
 PF3D7_0831200 VM---NNER₁MY₁YY₁S₁LI₁N₁IL₁Y₁EL₁K₁II₁Y₁K₁P₁RN₁LR₁K-----RRN₁CK₁NI₁I₁Y₁MG₁DF₁M₁ML₁N₁ED₁WF 175
 B PF3D7_1201000_1 VM---KNEES₁Y₁Q₁F₁N₁Q₁F₁N₁V₁D₁L₁ST₁YY₁D₁T₁L₁K₁EN₁LD₁NY₁KE-----DKL₁NE₁R₁H₁V₁PL₁KA₁Q₁K₁I₁P₁GL₁T₁K₁FE₁D₁WT 174
 B PF3D7_1201100 VM---LNESS₁Y₁SY₁ST₁N₁V₁N₁E₁LL₁KK₁Y₁DL₁Y₁K₁LR₁DY₁D-----D₁W₁ND₁S₁K₁F₁L₁II₁E₁K₁H₁M₁T₁LY₁K₁FL₁N₁W₁Y₁ 173
 B PF3D7_1372100 VM---KNE₁E₁Y₁GF₁N₁H₁I₁T₁D₁Y₁R₁F₁Y₁TL₁IK₁Y₁K₁V₁SG₁N₁FA₁FN-----EW₁E₁V₁N₁S₁IR₁Y₁LM₁K₁NA₁E₁I₁Y₁L₁N₁T₁LF₁QN₁WI 248
 B PF3D7_0402100 VL---RNE₁RR₁Y₁E₁N₁L₁D₁S₁I₁Y₁K₁F₁Y₁N₁D₁S₁V₁H₁K₁V₁PK₁S₁FAE-----E₁K₁Q₁E₁C₁N₁E₁I₁IL₁G₁Q₁EM₁TY₁M₁D₁N₁I₁F₁D₁W₁ 171
 PF3D7_1372000 TL---GVC₁SGGH₁DM₁IS₁N₁LN₁E₁K₁S₁C₁L₁SE₁Y₁K₁I₁L₁PH₁Y₁GG₁PP-----REKN₁PE₁EY₁W₁K₁CL₁Y₁D₁F₁E₁V₁K₁L₁AS₁Y₁E₁N₁S₁K₁F₁Y₁LL 257
 B PF3D7_1253100 TI---GLYNEQ₁DL₁L₁E₁KE₁Y₁N₁F₁Q₁H₁Y₁LP₁Y₁GR₁S₁RS₁-----FY₁-K₁I₁S₁R₁E₁I₁F₁C₁T₁V₁N₁CRE₁E₁A₁I₁K₁V₁E₁T₁Y₁D₁W₁ 182
 B PF3D7_1102500 IN---RNEEK₁N₁I₁S₁Y₁ST₁N₁V₁N₁E₁LL₁KK₁Y₁DL₁Y₁K₁LR₁DY₁D-----N₁LN₁N₁AY₁G₁K₁L₁H₁Y₁IN₁Y₁TK₁W₁ 248
 B PF3D7_0731300 IV---QNEEN₁Y₁IL₁S₁VR₁K₁M₁F₁E₁V₁N₁F₁Y₁N₁S₁V₁H₁S₁KEE-----E₁IM₁EL₁R₁TT₁F₁D₁Y₁R₁N₁V₁T₁PN₁M₁D₁F₁IR₁WI 174
 B PF3D7_1252800 LM---QNEQM₁YY₁G₁R₁H₁S₁LN₁K₁F₁Y₁K₁N₁LN₁Q₁Y₁NI₁K₁I₁E₁S₁ND-----E₁AL₁K₁C₁N₁E₁I₁IC₁L₁S₁A₁H₁Y₁Q₁R₁H₁L₁N₁N₁F₁EW₁ 168
 B PF3D7_0424800 VM---KNEES₁LY₁L₁CR₁N₁Y₁Q₁H₁L₁K₁LN₁S₁R₁L₁SH₁D₁K₁LN-----N₁LN₁E₁CV₁N₁V₁Y₁DK₁T₁IN₁NI₁K₁EW₁ 225
 B PF3D7_0831000 FI---KNELS₁N₁L₁F₁KK₁K₁I₁S₁D₁L₁E₁LL₁S₁Q₁Y₁N₁K₁D₁B₁Y₁V₁N-----E₁LN₁E₁CL₁D₁L₁I₁E₁T₁S₁G₁M₁S₁M₁T₁N₁L₁Y₁A₁F₁Y₁W₁ 144
 B PF3D7_0937000 LM---F₁K₁E₁LN₁L₁F₁L₁I₁K₁H₁L₁E₁Y₁K₁N₁M₁D₁Y₁N₁S₁T₁Y₁V₁F₁G-----NECY₁KK₁M₁V₁MD₁I₁L₁N₁E₁Y₁H₁L₁N₁V₁F₁Y₁W₁ 207
 B PF3D7_0532400 VM---DKEKK₁N₁G₁L₁R₁N₁V₁L₁R₁K₁Y₁Q₁E₁B₁F₁P₁IN₁N₁V₁NN₁Y₁K₁E-----E₁K₁F₁D₁C₁Y₁E₁R₁I₁D₁G₁A₁D₁I₁EN₁LN₁K₁L₁S₁K₁C₁I 164
 B PF3D7_0532300 TF---ENEKK₁Y₁N₁Q₁I₁Y₁D₁L₁Y₁M₁Y₁E₁F₁L₁R₁E₁N₁K₁V₁P₁H₁E₁Y₁AG-----Q₁W₁D₁C₁I₁K₁V₁K₁E₁T₁D₁N₁A₁K₁V₁L₁L₁E₁D₁F₁W₁ 175
 B PF3D7_0401800 IN---ENE₁E₁ED₁D₁I₁R₁K₁C₁A₁S₁K₁N₁S₁L₁H₁T₁P₁E₁S₁-----Q₁A₁W₁Y₁Q₁K₁L₁Y₁N₁D₁W₁ 248
 B PF3D7_1476300 IK---SNEEN₁K₁Y₁F₁Y₁MT₁K₁Y₁K₁M₁H₁M₁I₁Y₁K₁D₁N₁F₁T₁-----DLW₁K₁D₁C₁Y₁S₁N₁L₁E₁K₁H₁M₁T₁FL₁D₁ 176
 PF3D7_0936600 VR---GSEK₁L₁M₁HH₁N₁LY₁G₁R₁L₁R₁I₁K₁L₁Y₁E₁Y₁-----E₁IM₁EL₁R₁N₁C₁A₁F₁ 166
 PF3D7_1201200 IQ---GSERL₁A₁T₁S₁M₁V₁Y₁T₁R₁R₁E₁K₁S₁L₁KEY₁N₁L₁Q₁K₁D₁K₁E-----IE-----134
 PF3D7_0731100 LR---EVER₁Z₁F₁AM₁M₁Q₁R₁L₁K₁Y₁G₁H₁L₁T₁N₁T₁Y₁D₁L₁L₁E₁FA₁K₁-----DLW₁V₁A₁S₁Y₁K₁T₁A₁K₁E₁K₁N₁F₁Y₁ 247
 B PF3D7_1476200 LR---GIE₁R₁FE₁E₁D₁V₁S₁D₁F₁T₁V₁Y₁H₁D₁L₁E₁T₁Y₁N₁T₁E₁K₁E-----I₁W₁K₁N₁C₁L₁S₁D₁A₁R₁H₁S₁Y₁A₁E₁T₁ 247
 PF3D7_0219700 FS---NNCR₁Y₁Y₁N₁M₁D₁N₁V₁W₁T₁R₁E₁S₁I₁C₁S₁Y₁H₁N₁I₁P₁K₁Y₁K₁Y₁ 179
 PF3D7_0219800 VR---Y₁Y₁V₁R₁K₁Y₁V₁D₁M₁N₁W₁S₁Y₁V₁K₁E₁S₁D₁N₁F₁A₁N₁F₁ 213
 PF3D7_1016600 VN---SKE₁Y₁Y₁LN₁M₁Q₁N₁I₁S₁Y₁C₁E₁N₁L₁A₁Y₁N₁D₁I₁P₁K₁D₁E₁-----NEW₁L₁K₁A₁Y₁Y₁MT₁D₁ 177
 PF3D7_1200900 IH---DNEKK₁Y₁Y₁Q₁N₁I₁S₁Y₁C₁E₁N₁L₁A₁Y₁N₁D₁I₁P₁K₁K₁-----I₁W₁K₁A₁Y₁N₁T₁Y₁F₁H₁L₁ 247
 PF3D7_1001700 IH---DNEKK₁Y₁Y₁Q₁N₁I₁S₁Y₁C₁E₁N₁L₁A₁Y₁N₁D₁I₁P₁K₁K₁-----I₁W₁K₁A₁Y₁N₁T₁Y₁F₁H₁L₁ 172
 PF3D7_1016500 IN---SFER₁K₁Y₁Q₁E₁DN₁I₁Y₁C₁E₁W₁S₁V₁N₁K₁P₁V₁Q₁N₁K₁Y₁Q₁ 247
 PF3D7_1016700 VK---RISER₁X₁F₁C₁M₁Q₁E₁Y₁E₁Y₁I₁E₁K₁L₁I₁K₁S₁N₁V₁P₁T₁Y₁K₁R-----E₁CM₁A₁V₁N₁F₁H₁T₁D₁L₁Y₁E₁Y₁ 247
 PF3D7_0936800 VH---ESE₁E₁NE₁K₁V₁E₁N₁I₁F₁Q₁S₁L₁V₁E₁T₁Y₁K₁P₁D₁E₁Y₁K₁R-----KE₁FA₁H₁F₁E₁M₁Q₁Y₁A₁K₁F₁L₁Y₁E₁A₁F₁ 130
 PF3D7_0801000 IL---AHER₁K₁Y₁Q₁E₁Y₁L₁M₁Y₁Y₁S₁Q₁L₁E₁K₁T₁Y₁L₁V₁P₁T₁A₁F₁-----Y₁WW₁R₁V₁H₁Y₁M₁T₁E₁ 247
 PF3D7_0202100 SH---SLLR₁D₁E₁N₁K₁M₁Q₁S₁L₁W₁S₁I₁C₁G₁K₁A₁H₁E₁K₁P₁F₁K₁M₁K₁-----

PRESAN



Supplementary figure 4

ClustalX alignment of the extended PRESAN domains of *P. falciparum* PHIST proteins (annotated in PlasmoDB). Sequences included 150 residues N-terminal to the annotated PRESAN domain (or to the cleaved HT motif, whichever was shorter) and six residues C-terminal to the annotated PRESAN domain. The N-terminal end of the PRESAN domain (Pfam ID: PF09687) in PHISTb protein PF3D7_0201600 is annotated by a black bar above the aligned sequences. Residue positions with greater than 30% amino acid identity/similarity are coloured (alignment was coloured using Multiple Align Show). Proteins annotated as PHISTb family members in plasmoDB are indicated by a letter 'B'.